

Appendix for Band 12

Product Name: Smart Phone

Model No: X65

Appendix A: Average Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	23.33	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	22.47	PASS
Band12	1.4MHz	QPSK	23017	1RB#2	23.51	PASS
Band12	1.4MHz	16QAM	23017	1RB#2	22.60	PASS
Band12	1.4MHz	QPSK	23017	1RB#5	23.35	PASS
Band12	1.4MHz	16QAM	23017	1RB#5	22.48	PASS
Band12	1.4MHz	QPSK	23017	3RB#0	23.38	PASS
Band12	1.4MHz	16QAM	23017	3RB#0	22.31	PASS
Band12	1.4MHz	QPSK	23017	3RB#1	23.39	PASS
Band12	1.4MHz	16QAM	23017	3RB#1	22.30	PASS
Band12	1.4MHz	QPSK	23017	3RB#3	23.39	PASS
Band12	1.4MHz	16QAM	23017	3RB#3	22.27	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	22.40	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	21.43	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	23.40	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	22.56	PASS
Band12	1.4MHz	QPSK	23095	1RB#2	23.54	PASS
Band12	1.4MHz	16QAM	23095	1RB#2	22.67	PASS
Band12	1.4MHz	QPSK	23095	1RB#5	23.48	PASS
Band12	1.4MHz	16QAM	23095	1RB#5	22.54	PASS
Band12	1.4MHz	QPSK	23095	3RB#0	23.50	PASS
Band12	1.4MHz	16QAM	23095	3RB#0	22.38	PASS
Band12	1.4MHz	QPSK	23095	3RB#1	23.50	PASS
Band12	1.4MHz	16QAM	23095	3RB#1	22.42	PASS
Band12	1.4MHz	QPSK	23095	3RB#3	23.54	PASS
Band12	1.4MHz	16QAM	23095	3RB#3	22.40	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	22.50	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	21.54	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	23.43	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	22.58	PASS
Band12	1.4MHz	QPSK	23173	1RB#2	23.49	PASS
Band12	1.4MHz	16QAM	23173	1RB#2	22.71	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	23.41	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	22.55	PASS
Band12	1.4MHz	QPSK	23173	3RB#0	23.51	PASS

Band12	1.4MHz	16QAM	23173	3RB#0	22.42	PASS
Band12	1.4MHz	QPSK	23173	3RB#1	23.51	PASS
Band12	1.4MHz	16QAM	23173	3RB#1	22.40	PASS
Band12	1.4MHz	QPSK	23173	3RB#3	23.53	PASS
Band12	1.4MHz	16QAM	23173	3RB#3	22.38	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	22.41	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	21.40	PASS
Band12	3MHz	QPSK	23025	1RB#0	23.44	PASS
Band12	3MHz	16QAM	23025	1RB#0	22.57	PASS
Band12	3MHz	QPSK	23025	1RB#8	23.38	PASS
Band12	3MHz	16QAM	23025	1RB#8	22.57	PASS
Band12	3MHz	QPSK	23025	1RB#14	23.41	PASS
Band12	3MHz	16QAM	23025	1RB#14	22.58	PASS
Band12	3MHz	QPSK	23025	8RB#0	22.32	PASS
Band12	3MHz	16QAM	23025	8RB#0	21.41	PASS
Band12	3MHz	QPSK	23025	8RB#4	22.36	PASS
Band12	3MHz	16QAM	23025	8RB#4	21.42	PASS
Band12	3MHz	QPSK	23025	8RB#7	22.42	PASS
Band12	3MHz	16QAM	23025	8RB#7	21.50	PASS
Band12	3MHz	QPSK	23025	15RB#0	22.37	PASS
Band12	3MHz	16QAM	23025	15RB#0	21.41	PASS
Band12	3MHz	QPSK	23095	1RB#0	23.52	PASS
Band12	3MHz	16QAM	23095	1RB#0	22.68	PASS
Band12	3MHz	QPSK	23095	1RB#8	23.49	PASS
Band12	3MHz	16QAM	23095	1RB#8	22.68	PASS
Band12	3MHz	QPSK	23095	1RB#14	23.49	PASS
Band12	3MHz	16QAM	23095	1RB#14	22.61	PASS
Band12	3MHz	QPSK	23095	8RB#0	22.51	PASS
Band12	3MHz	16QAM	23095	8RB#0	21.55	PASS
Band12	3MHz	QPSK	23095	8RB#4	22.52	PASS
Band12	3MHz	16QAM	23095	8RB#4	21.53	PASS
Band12	3MHz	QPSK	23095	8RB#7	22.50	PASS
Band12	3MHz	16QAM	23095	8RB#7	21.51	PASS
Band12	3MHz	QPSK	23095	15RB#0	22.49	PASS
Band12	3MHz	16QAM	23095	15RB#0	21.40	PASS
Band12	3MHz	QPSK	23165	1RB#0	23.57	PASS
Band12	3MHz	16QAM	23165	1RB#0	22.44	PASS
Band12	3MHz	QPSK	23165	1RB#8	23.53	PASS
Band12	3MHz	16QAM	23165	1RB#8	22.44	PASS
Band12	3MHz	QPSK	23165	1RB#14	23.51	PASS
Band12	3MHz	16QAM	23165	1RB#14	22.40	PASS
Band12	3MHz	QPSK	23165	8RB#0	22.57	PASS

Band12	3MHz	16QAM	23165	8RB#0	21.58	PASS
Band12	3MHz	QPSK	23165	8RB#4	22.57	PASS
Band12	3MHz	16QAM	23165	8RB#4	21.53	PASS
Band12	3MHz	QPSK	23165	8RB#7	22.51	PASS
Band12	3MHz	16QAM	23165	8RB#7	21.53	PASS
Band12	3MHz	QPSK	23165	15RB#0	22.53	PASS
Band12	3MHz	16QAM	23165	15RB#0	21.42	PASS
Band12	5MHz	QPSK	23035	1RB#0	23.40	PASS
Band12	5MHz	16QAM	23035	1RB#0	22.40	PASS
Band12	5MHz	QPSK	23035	1RB#12	23.53	PASS
Band12	5MHz	16QAM	23035	1RB#12	22.51	PASS
Band12	5MHz	QPSK	23035	1RB#24	23.45	PASS
Band12	5MHz	16QAM	23035	1RB#24	22.49	PASS
Band12	5MHz	QPSK	23035	12RB#0	22.30	PASS
Band12	5MHz	16QAM	23035	12RB#0	21.26	PASS
Band12	5MHz	QPSK	23035	12RB#6	22.32	PASS
Band12	5MHz	16QAM	23035	12RB#6	21.31	PASS
Band12	5MHz	QPSK	23035	12RB#13	22.46	PASS
Band12	5MHz	16QAM	23035	12RB#13	21.45	PASS
Band12	5MHz	QPSK	23035	25RB#0	22.43	PASS
Band12	5MHz	16QAM	23035	25RB#0	21.41	PASS
Band12	5MHz	QPSK	23095	1RB#0	23.48	PASS
Band12	5MHz	16QAM	23095	1RB#0	22.66	PASS
Band12	5MHz	QPSK	23095	1RB#12	23.59	PASS
Band12	5MHz	16QAM	23095	1RB#12	22.81	PASS
Band12	5MHz	QPSK	23095	1RB#24	23.48	PASS
Band12	5MHz	16QAM	23095	1RB#24	22.63	PASS
Band12	5MHz	QPSK	23095	12RB#0	22.48	PASS
Band12	5MHz	16QAM	23095	12RB#0	21.56	PASS
Band12	5MHz	QPSK	23095	12RB#6	22.55	PASS
Band12	5MHz	16QAM	23095	12RB#6	21.56	PASS
Band12	5MHz	QPSK	23095	12RB#13	22.50	PASS
Band12	5MHz	16QAM	23095	12RB#13	21.49	PASS
Band12	5MHz	QPSK	23095	25RB#0	22.53	PASS
Band12	5MHz	16QAM	23095	25RB#0	21.48	PASS
Band12	5MHz	QPSK	23155	1RB#0	23.62	PASS
Band12	5MHz	16QAM	23155	1RB#0	22.61	PASS
Band12	5MHz	QPSK	23155	1RB#12	23.70	PASS
Band12	5MHz	16QAM	23155	1RB#12	22.66	PASS
Band12	5MHz	QPSK	23155	1RB#24	23.48	PASS
Band12	5MHz	16QAM	23155	1RB#24	22.48	PASS
Band12	5MHz	QPSK	23155	12RB#0	22.53	PASS

Band12	5MHz	16QAM	23155	12RB#0	21.49	PASS
Band12	5MHz	QPSK	23155	12RB#6	22.52	PASS
Band12	5MHz	16QAM	23155	12RB#6	21.54	PASS
Band12	5MHz	QPSK	23155	12RB#13	22.43	PASS
Band12	5MHz	16QAM	23155	12RB#13	21.45	PASS
Band12	5MHz	QPSK	23155	25RB#0	22.51	PASS
Band12	5MHz	16QAM	23155	25RB#0	21.52	PASS
Band12	10MHz	QPSK	23060	1RB#0	23.38	PASS
Band12	10MHz	16QAM	23060	1RB#0	22.57	PASS
Band12	10MHz	QPSK	23060	1RB#24	23.51	PASS
Band12	10MHz	16QAM	23060	1RB#24	22.66	PASS
Band12	10MHz	QPSK	23060	1RB#49	23.51	PASS
Band12	10MHz	16QAM	23060	1RB#49	22.64	PASS
Band12	10MHz	QPSK	23060	25RB#0	22.45	PASS
Band12	10MHz	16QAM	23060	25RB#0	21.39	PASS
Band12	10MHz	QPSK	23060	25RB#12	22.44	PASS
Band12	10MHz	16QAM	23060	25RB#12	21.39	PASS
Band12	10MHz	QPSK	23060	25RB#25	22.53	PASS
Band12	10MHz	16QAM	23060	25RB#25	21.51	PASS
Band12	10MHz	QPSK	23060	50RB#0	22.43	PASS
Band12	10MHz	16QAM	23060	50RB#0	21.42	PASS
Band12	10MHz	QPSK	23095	1RB#0	23.51	PASS
Band12	10MHz	16QAM	23095	1RB#0	22.65	PASS
Band12	10MHz	QPSK	23095	1RB#24	23.60	PASS
Band12	10MHz	16QAM	23095	1RB#24	22.68	PASS
Band12	10MHz	QPSK	23095	1RB#49	23.53	PASS
Band12	10MHz	16QAM	23095	1RB#49	22.66	PASS
Band12	10MHz	QPSK	23095	25RB#0	22.61	PASS
Band12	10MHz	16QAM	23095	25RB#0	21.67	PASS
Band12	10MHz	QPSK	23095	25RB#12	22.62	PASS
Band12	10MHz	16QAM	23095	25RB#12	21.66	PASS
Band12	10MHz	QPSK	23095	25RB#25	22.61	PASS
Band12	10MHz	16QAM	23095	25RB#25	21.64	PASS
Band12	10MHz	QPSK	23095	50RB#0	22.54	PASS
Band12	10MHz	16QAM	23095	50RB#0	21.58	PASS
Band12	10MHz	QPSK	23130	1RB#0	23.61	PASS
Band12	10MHz	16QAM	23130	1RB#0	22.52	PASS
Band12	10MHz	QPSK	23130	1RB#24	23.74	PASS
Band12	10MHz	16QAM	23130	1RB#24	22.66	PASS
Band12	10MHz	QPSK	23130	1RB#49	23.51	PASS
Band12	10MHz	16QAM	23130	1RB#49	22.43	PASS
Band12	10MHz	QPSK	23130	25RB#0	22.66	PASS

Band12	10MHz	16QAM	23130	25RB#0	21.68	PASS
Band12	10MHz	QPSK	23130	25RB#12	22.70	PASS
Band12	10MHz	16QAM	23130	25RB#12	21.70	PASS
Band12	10MHz	QPSK	23130	25RB#25	22.53	PASS
Band12	10MHz	16QAM	23130	25RB#25	21.54	PASS
Band12	10MHz	QPSK	23130	50RB#0	22.59	PASS
Band12	10MHz	16QAM	23130	50RB#0	21.59	PASS

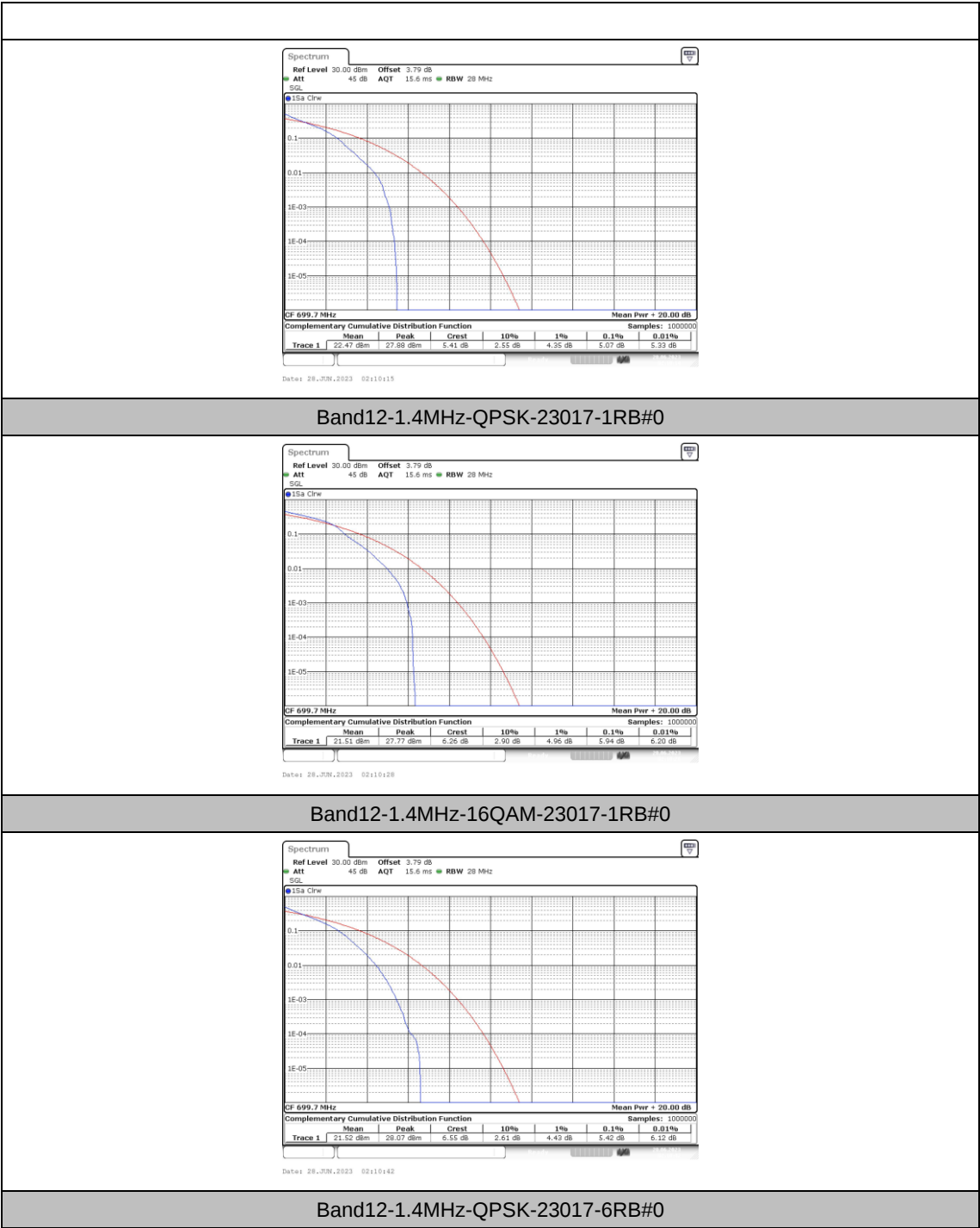
Appendix B: Peak-to-Average Ratio(CCDF)

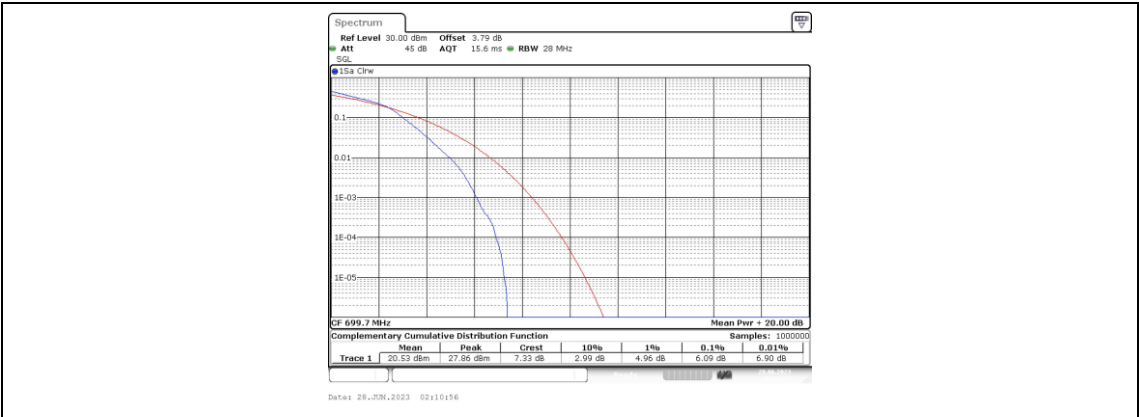
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	5.07	13	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	5.94	13	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	5.42	13	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	6.09	13	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	5.25	13	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	6.06	13	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	5.45	13	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	6.20	13	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	4.58	13	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	5.45	13	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	5.01	13	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	5.83	13	PASS
Band12	3MHz	QPSK	23025	1RB#0	4.96	13	PASS
Band12	3MHz	16QAM	23025	1RB#0	5.80	13	PASS
Band12	3MHz	QPSK	23025	15RB#0	5.42	13	PASS
Band12	3MHz	16QAM	23025	15RB#0	6.20	13	PASS
Band12	3MHz	QPSK	23095	1RB#0	4.96	13	PASS
Band12	3MHz	16QAM	23095	1RB#0	5.62	13	PASS
Band12	3MHz	QPSK	23095	15RB#0	5.45	13	PASS
Band12	3MHz	16QAM	23095	15RB#0	6.26	13	PASS
Band12	3MHz	QPSK	23165	1RB#0	4.84	13	PASS
Band12	3MHz	16QAM	23165	1RB#0	5.68	13	PASS
Band12	3MHz	QPSK	23165	15RB#0	5.22	13	PASS
Band12	3MHz	16QAM	23165	15RB#0	6.03	13	PASS
Band12	5MHz	QPSK	23035	1RB#0	5.16	13	PASS
Band12	5MHz	16QAM	23035	1RB#0	5.83	13	PASS
Band12	5MHz	QPSK	23035	25RB#0	5.48	13	PASS
Band12	5MHz	16QAM	23035	25RB#0	6.20	13	PASS
Band12	5MHz	QPSK	23095	1RB#0	5.10	13	PASS
Band12	5MHz	16QAM	23095	1RB#0	5.80	13	PASS
Band12	5MHz	QPSK	23095	25RB#0	5.48	13	PASS
Band12	5MHz	16QAM	23095	25RB#0	6.26	13	PASS
Band12	5MHz	QPSK	23155	1RB#0	5.48	13	PASS
Band12	5MHz	16QAM	23155	1RB#0	5.88	13	PASS

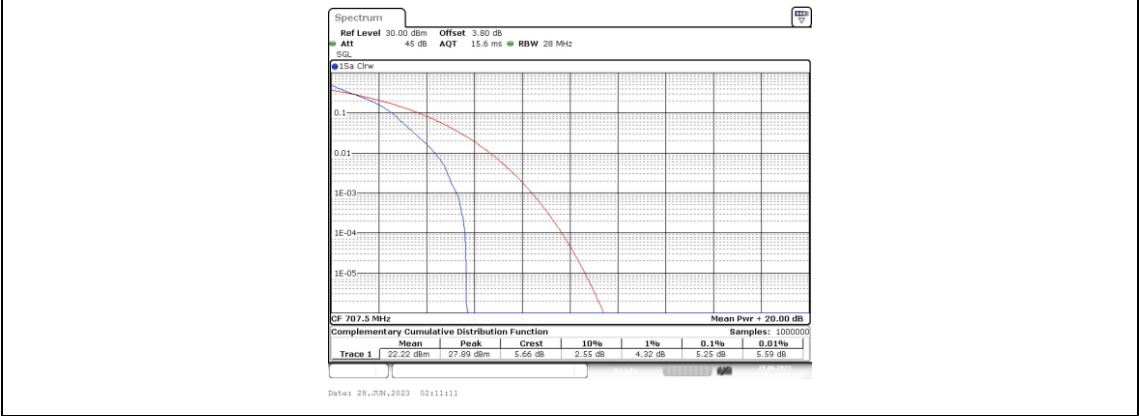
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Band12	5MHz	16QAM	23155	25RB#0	6.09	13	PASS
Band12	10MHz	QPSK	23060	1RB#0	4.99	13	PASS
Band12	10MHz	16QAM	23060	1RB#0	5.80	13	PASS
Band12	10MHz	QPSK	23060	50RB#0	5.45	13	PASS
Band12	10MHz	16QAM	23060	50RB#0	6.20	13	PASS
Band12	10MHz	QPSK	23095	1RB#0	4.87	13	PASS
Band12	10MHz	16QAM	23095	1RB#0	5.62	13	PASS
Band12	10MHz	QPSK	23095	50RB#0	5.45	13	PASS
Band12	10MHz	16QAM	23095	50RB#0	6.23	13	PASS
Band12	10MHz	QPSK	23130	1RB#0	5.10	13	PASS
Band12	10MHz	16QAM	23130	1RB#0	6.00	13	PASS
Band12	10MHz	QPSK	23130	50RB#0	5.48	13	PASS
Band12	10MHz	16QAM	23130	50RB#0	6.23	13	PASS

Test Graphs

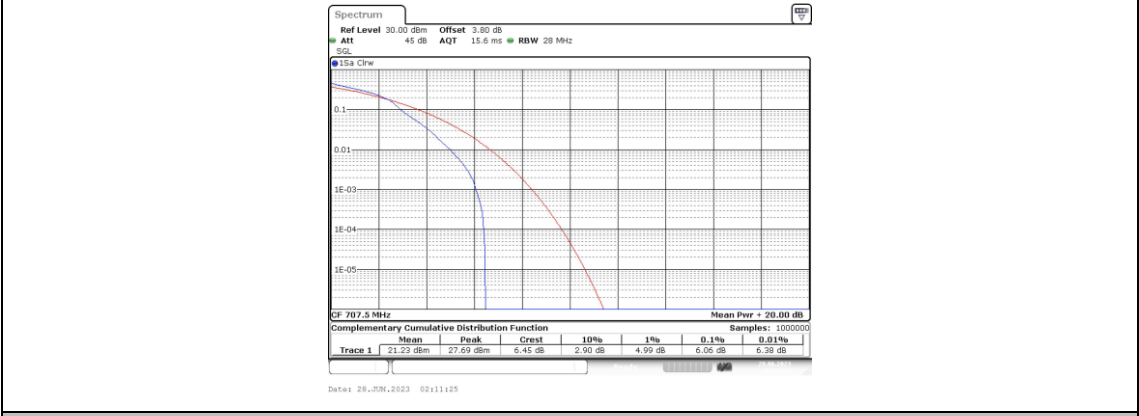




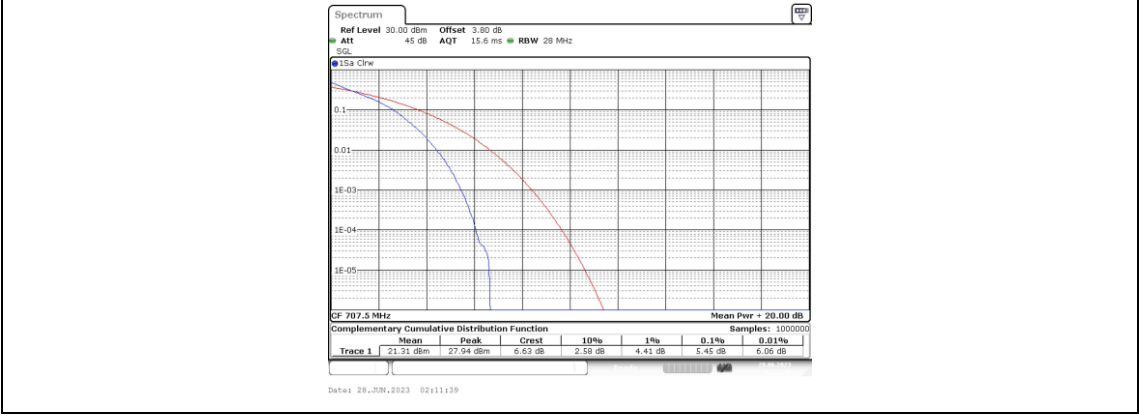
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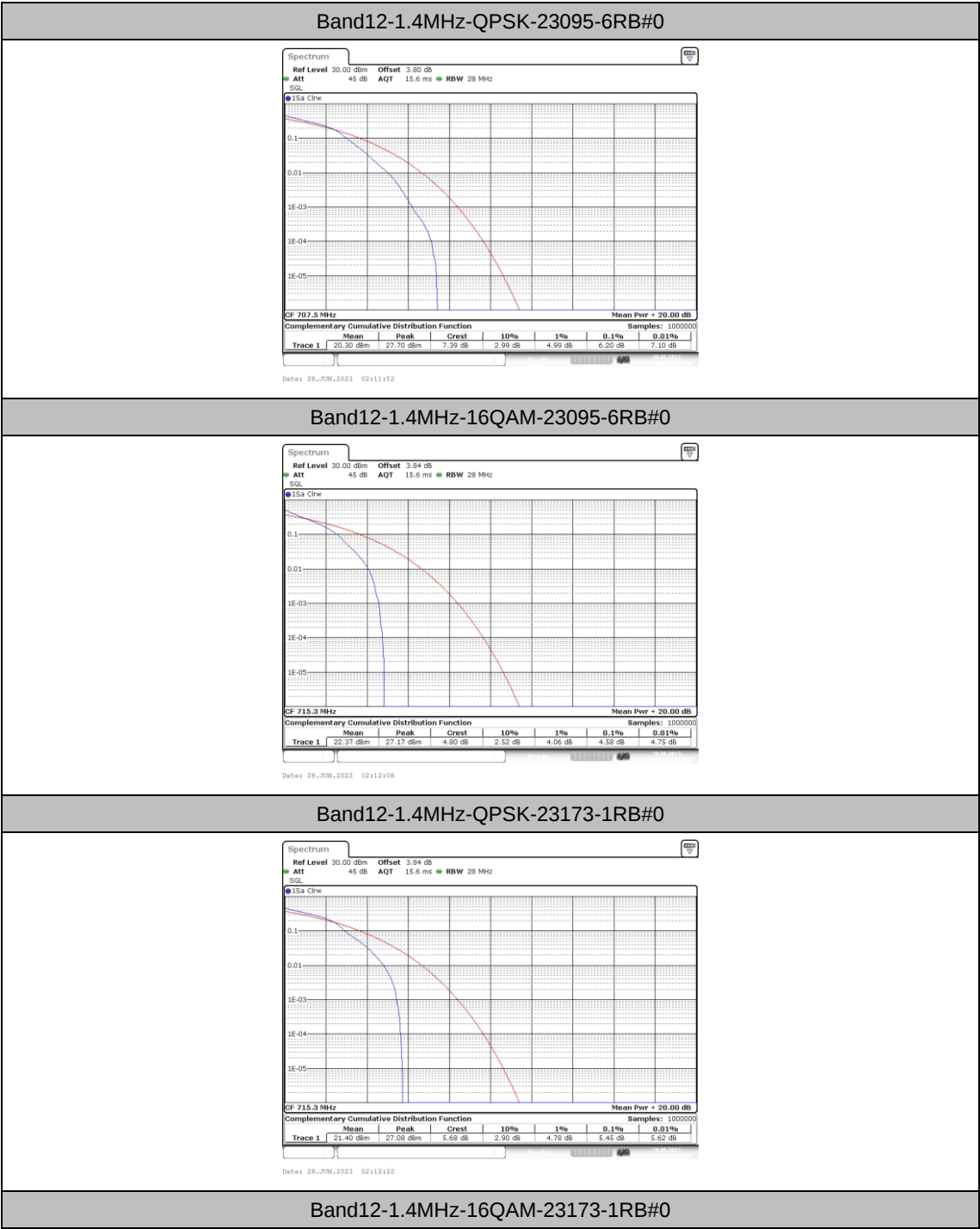


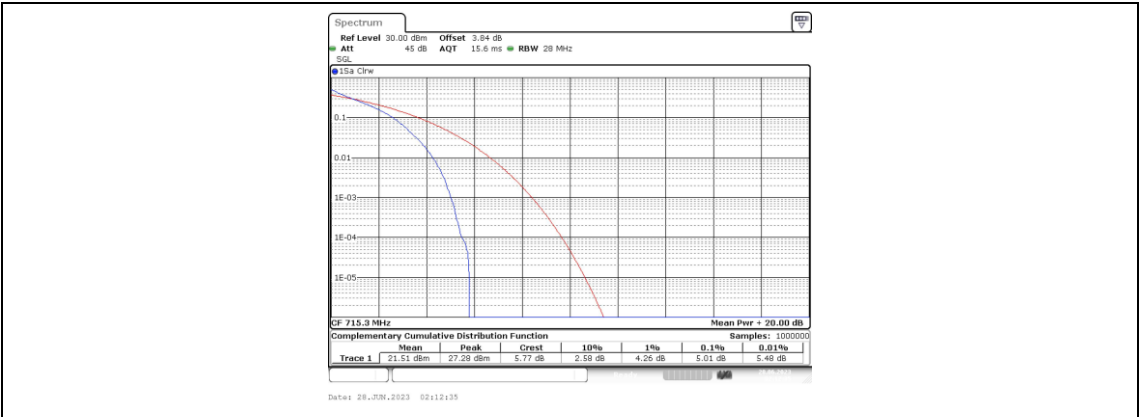
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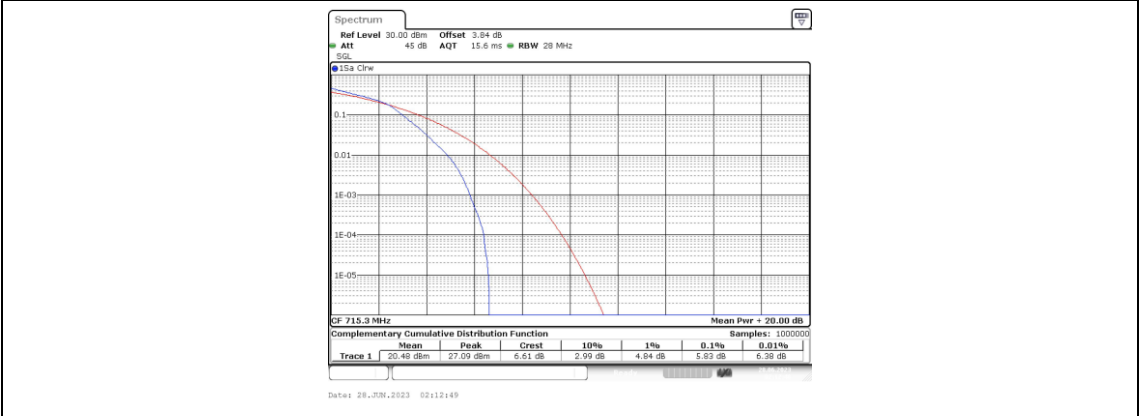
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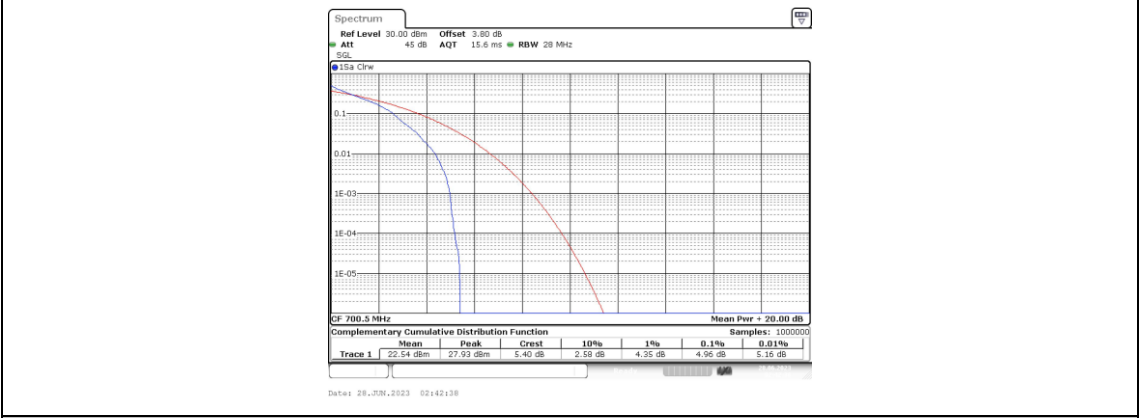




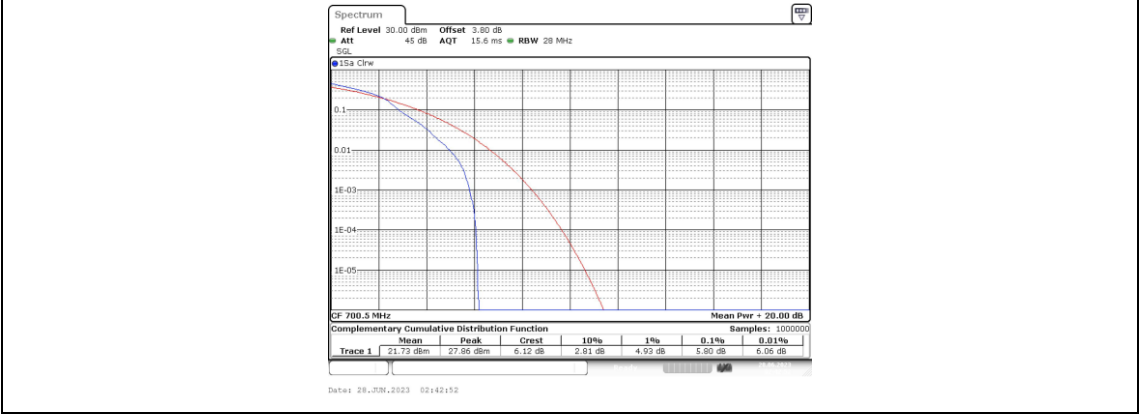
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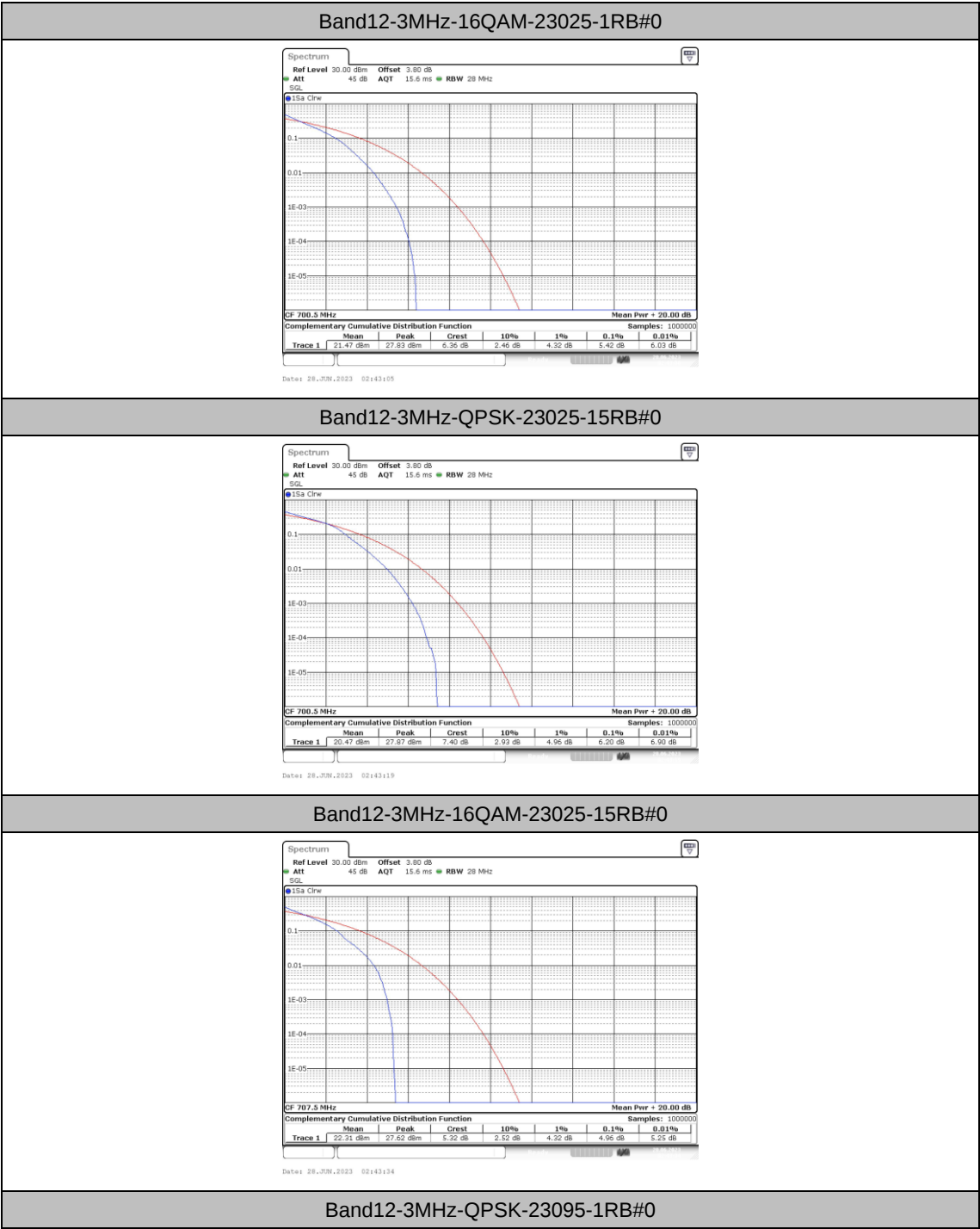


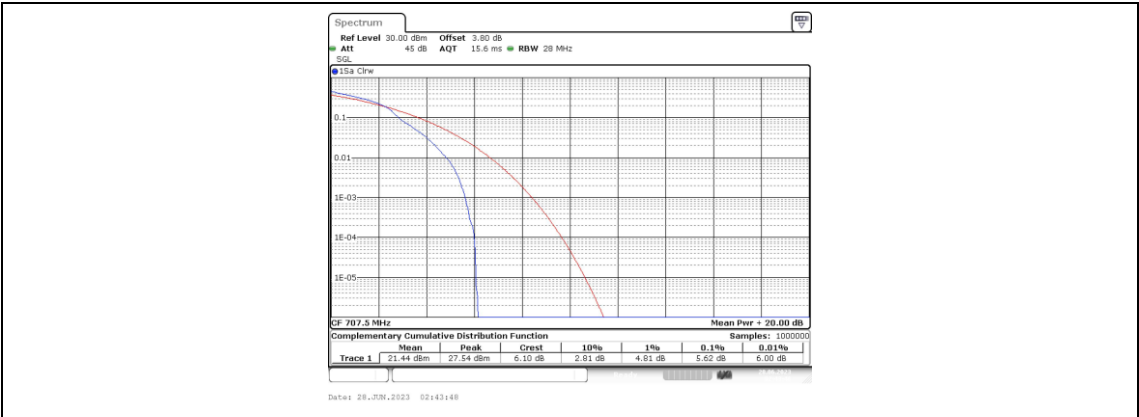
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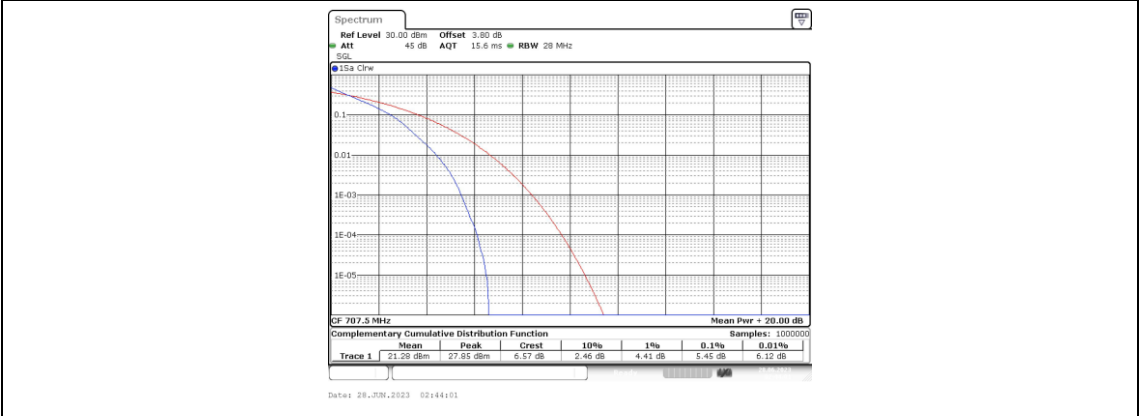
Band12-3MHz-QPSK-23025-1RB#0



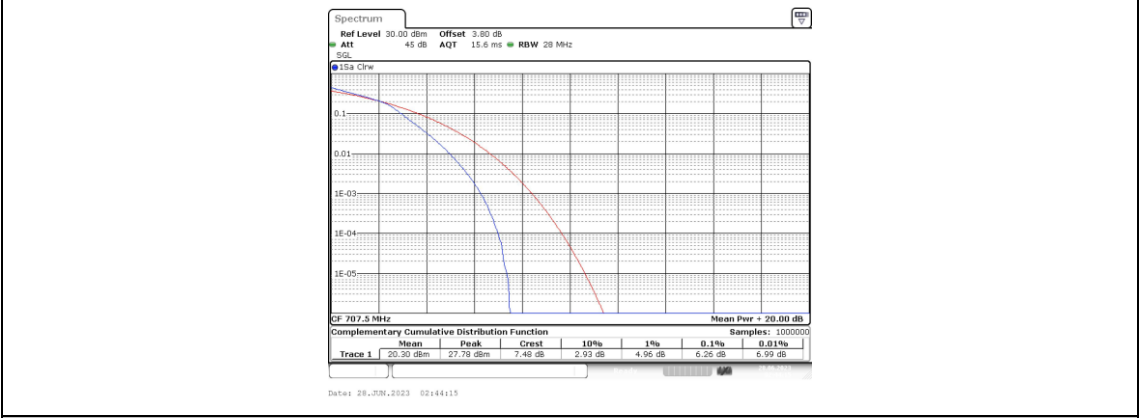




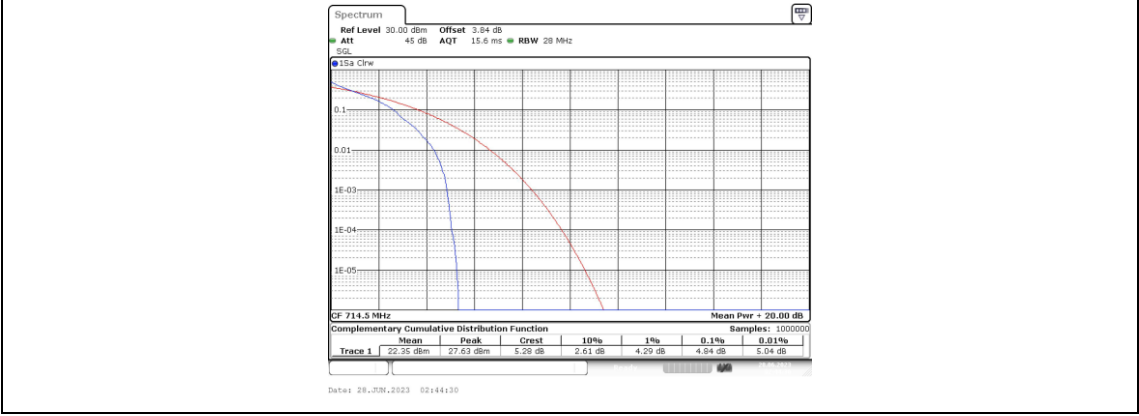
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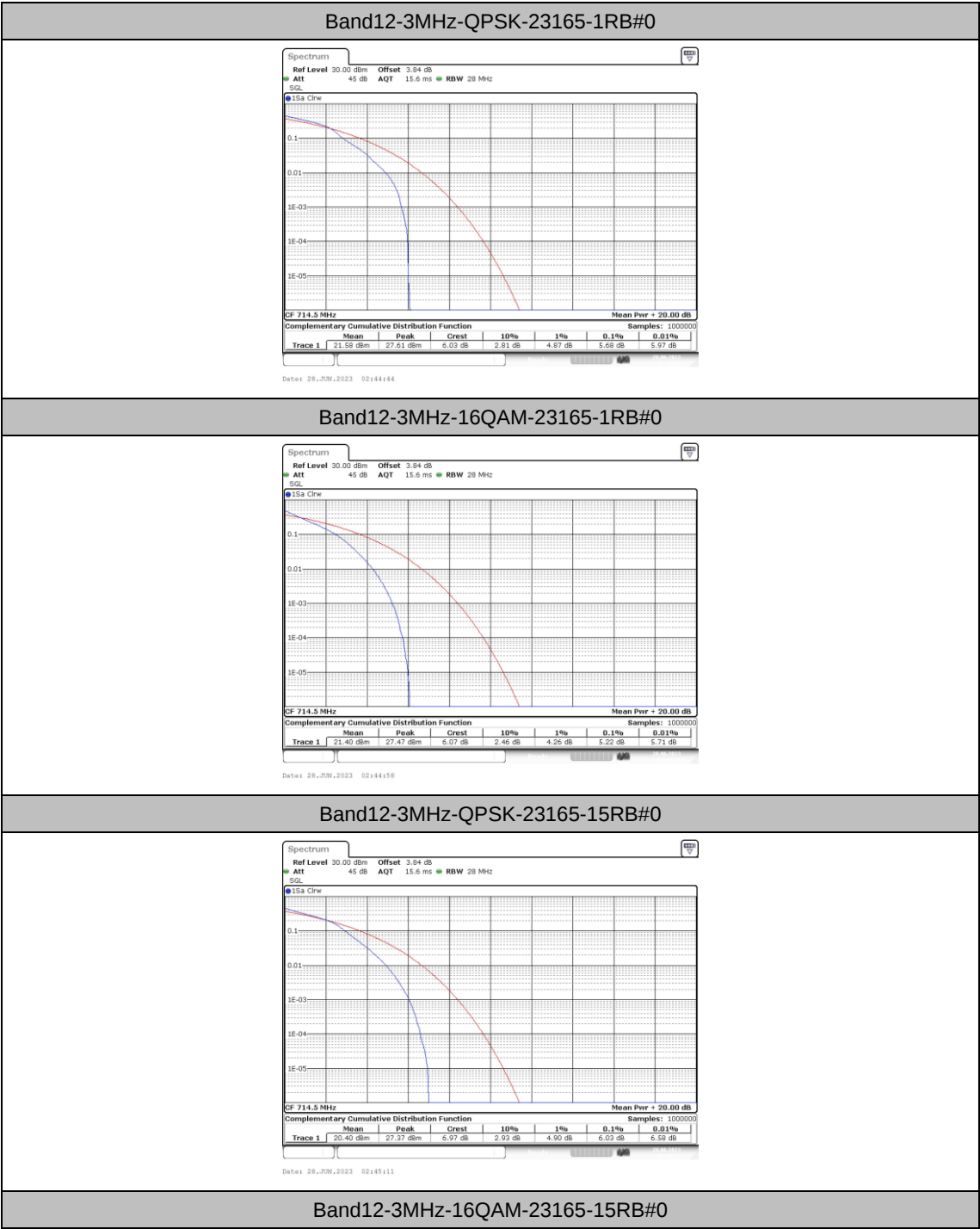


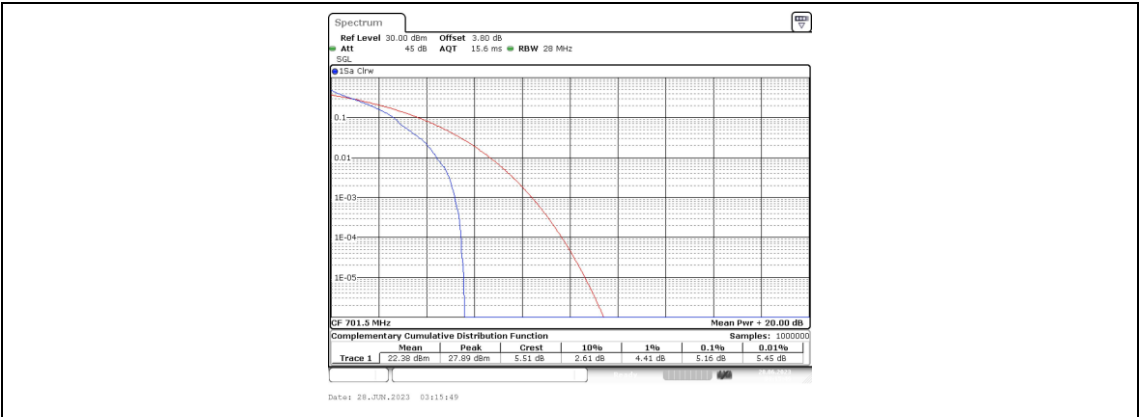
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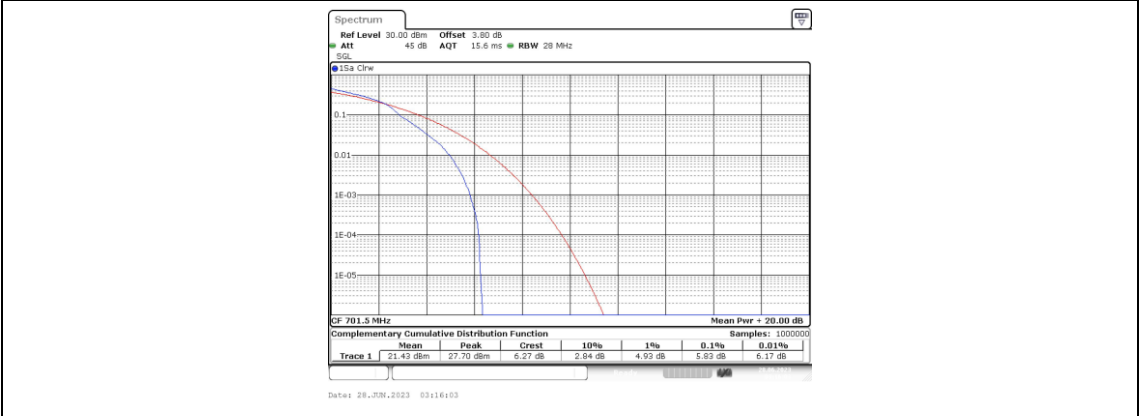
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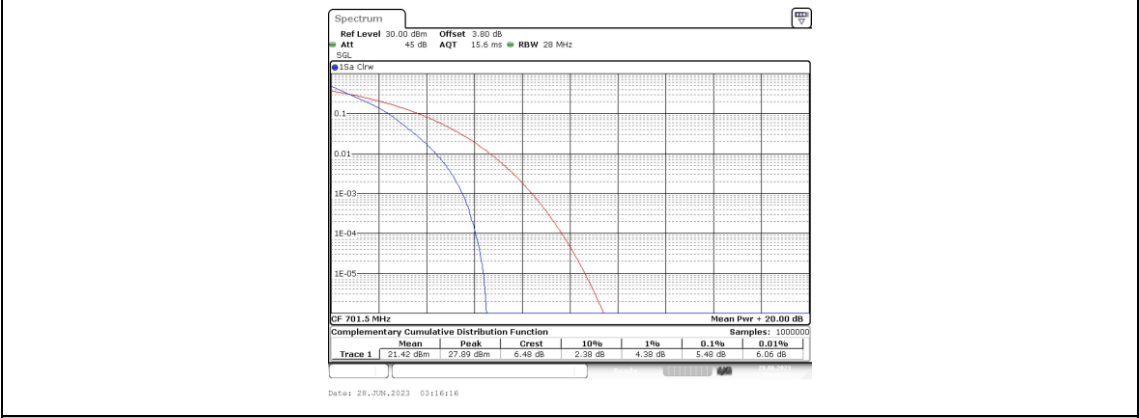




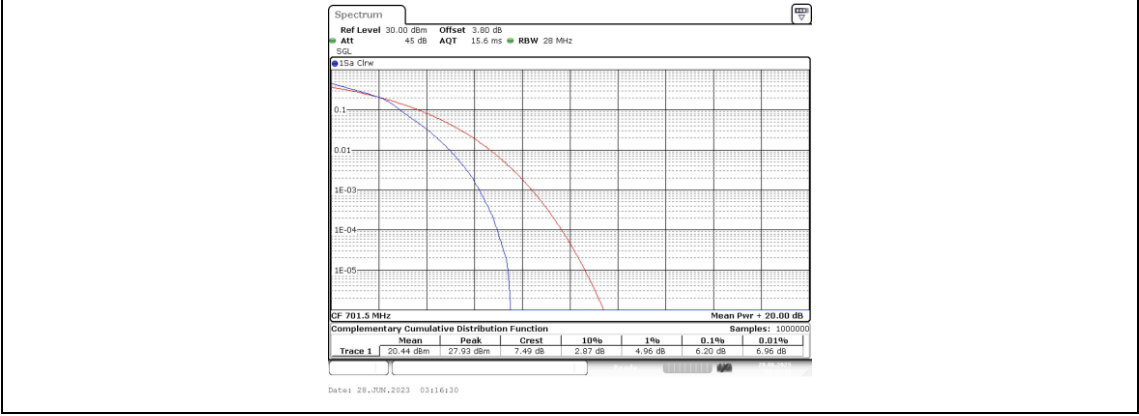
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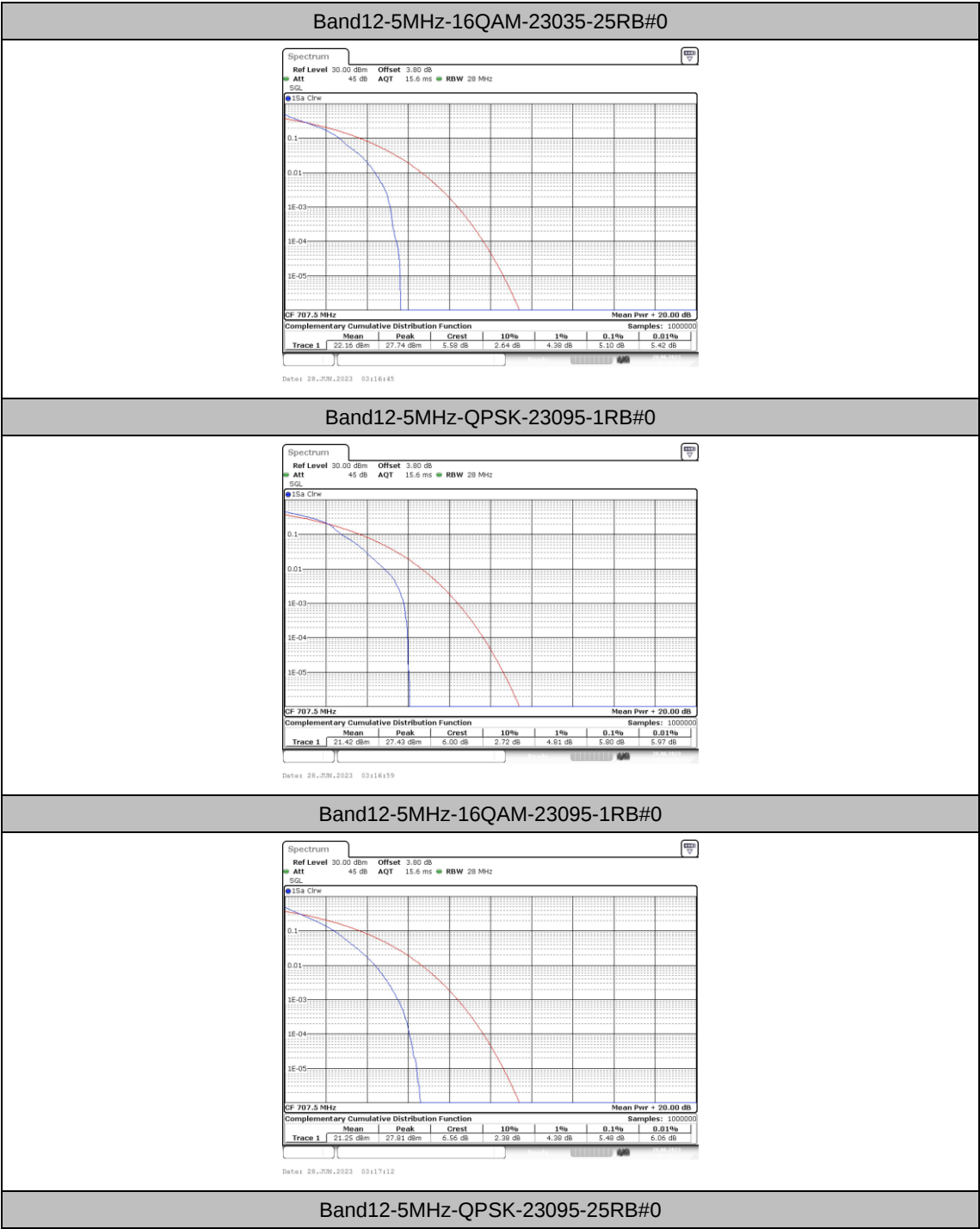


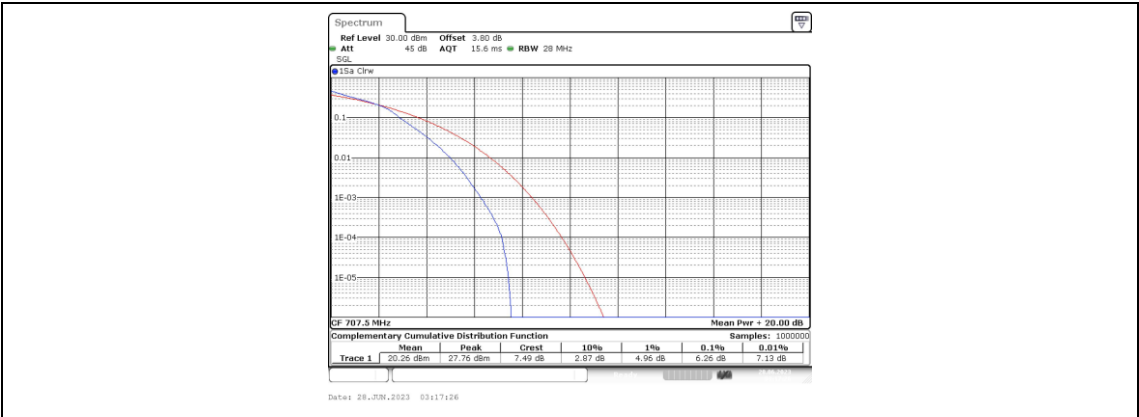
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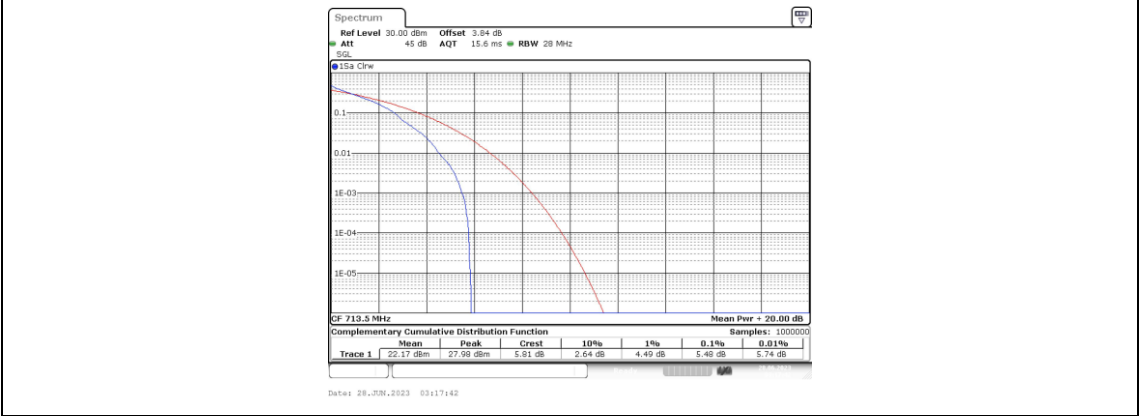
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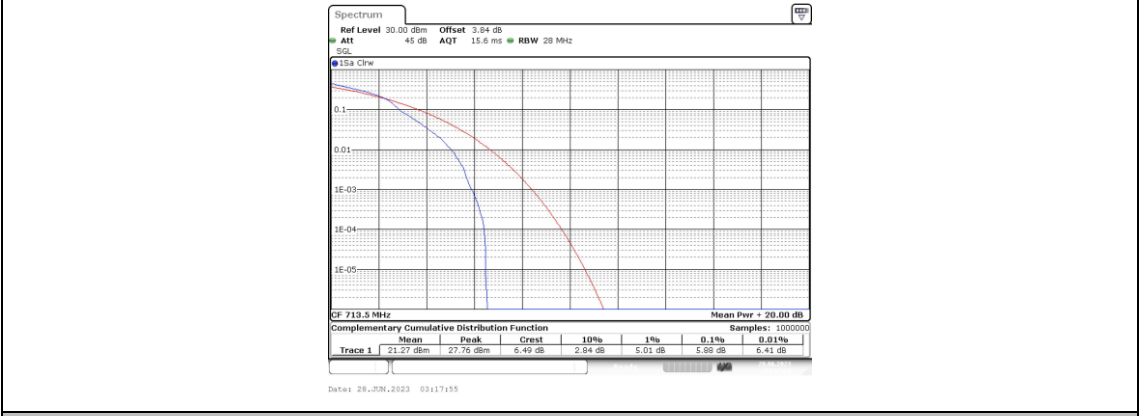




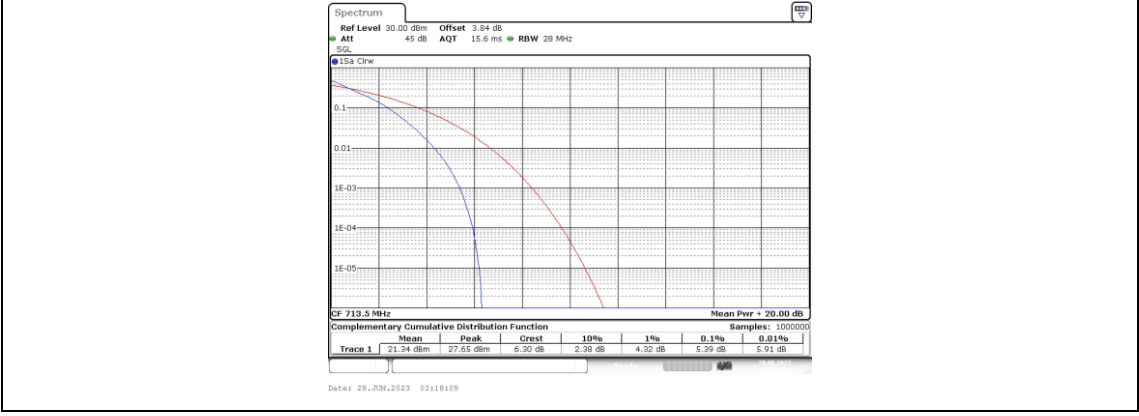
Band12-5MHz-16QAM-23095-25RB#0

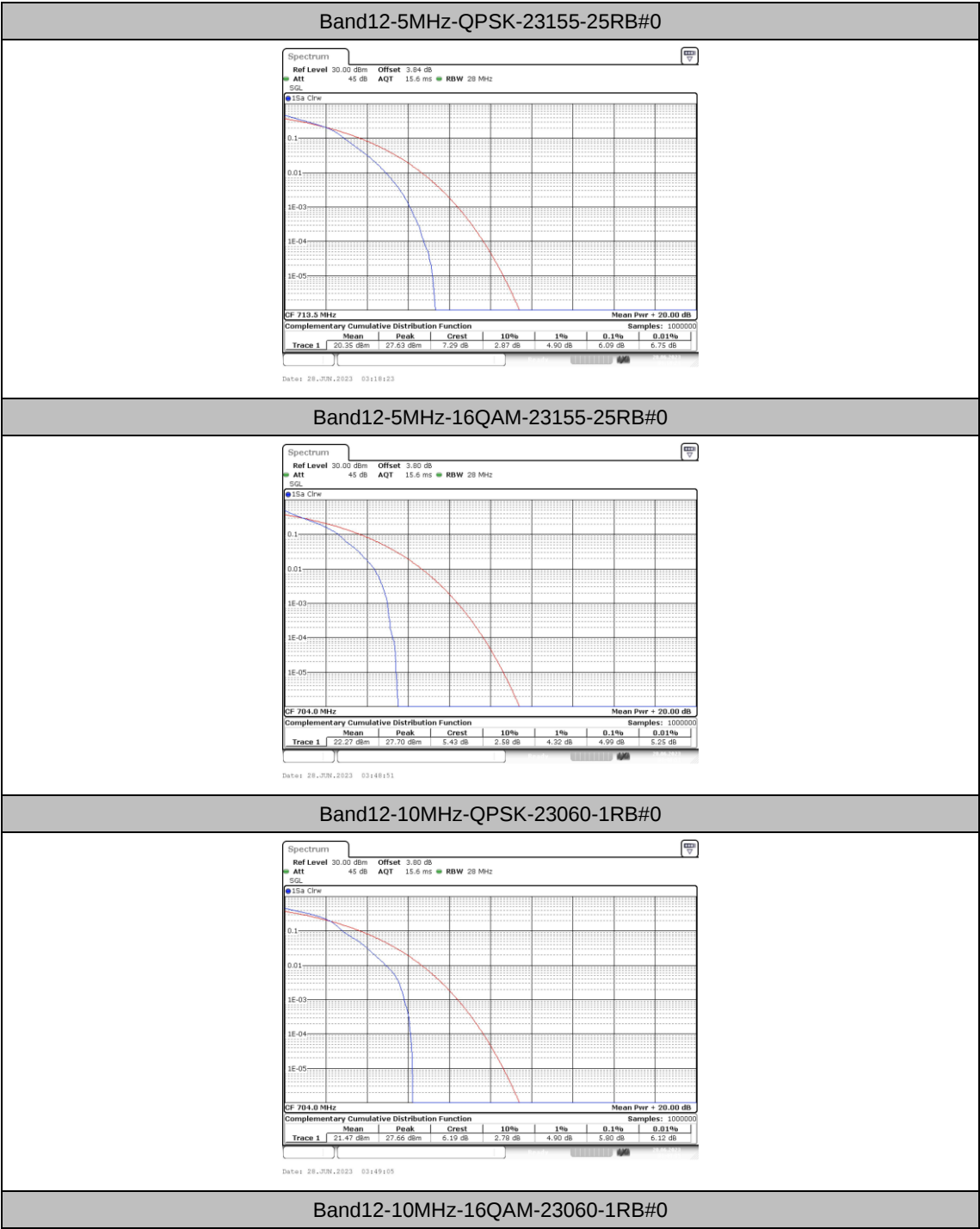


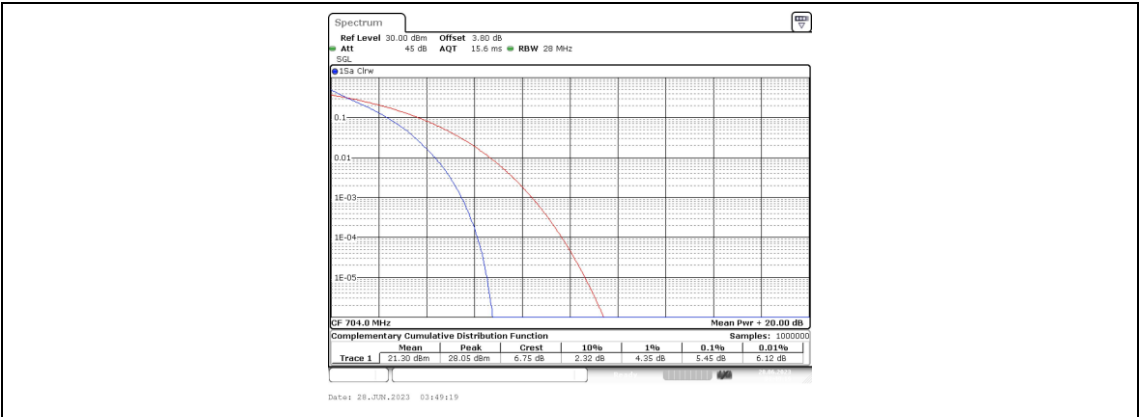
Band12-5MHz-QPSK-23155-1RB#0



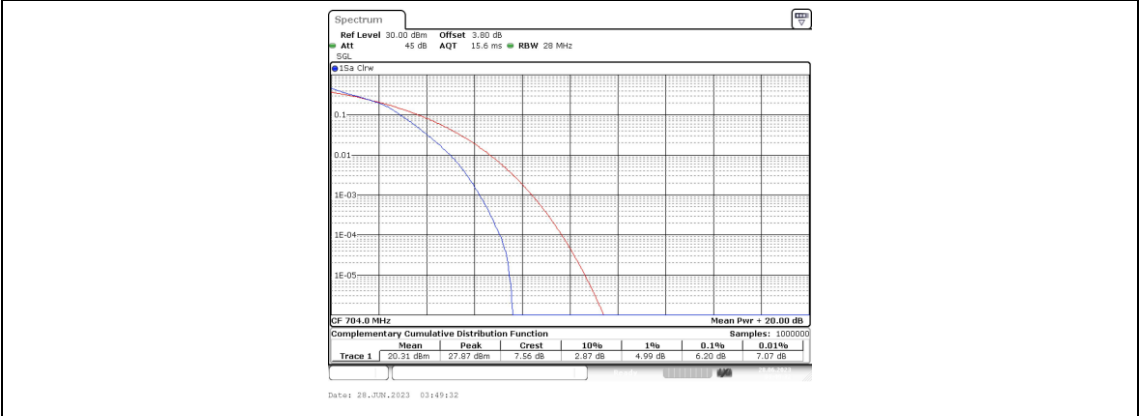
Band12-5MHz-16QAM-23155-1RB#0



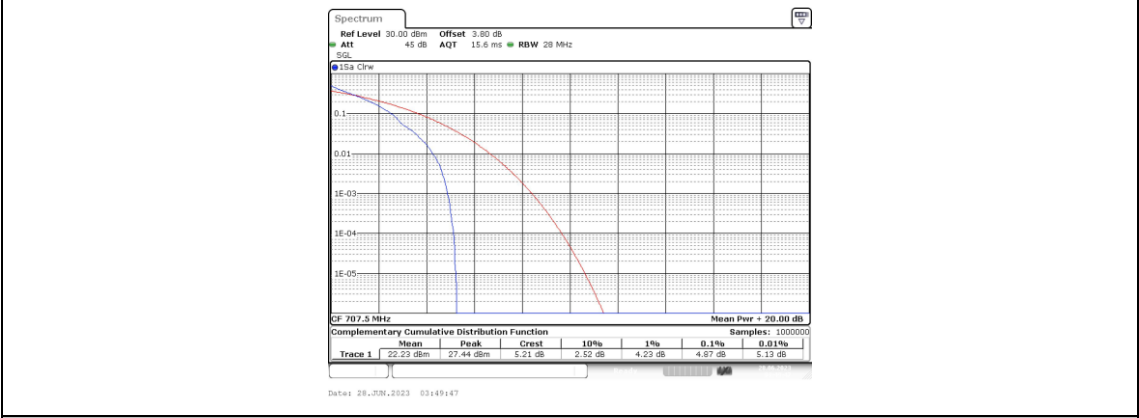




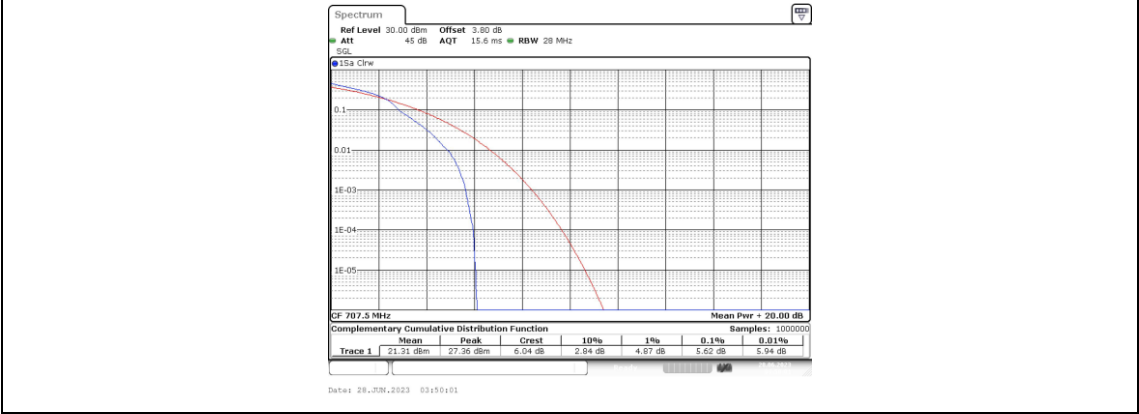
Band12-10MHz-QPSK-23060-50RB#0

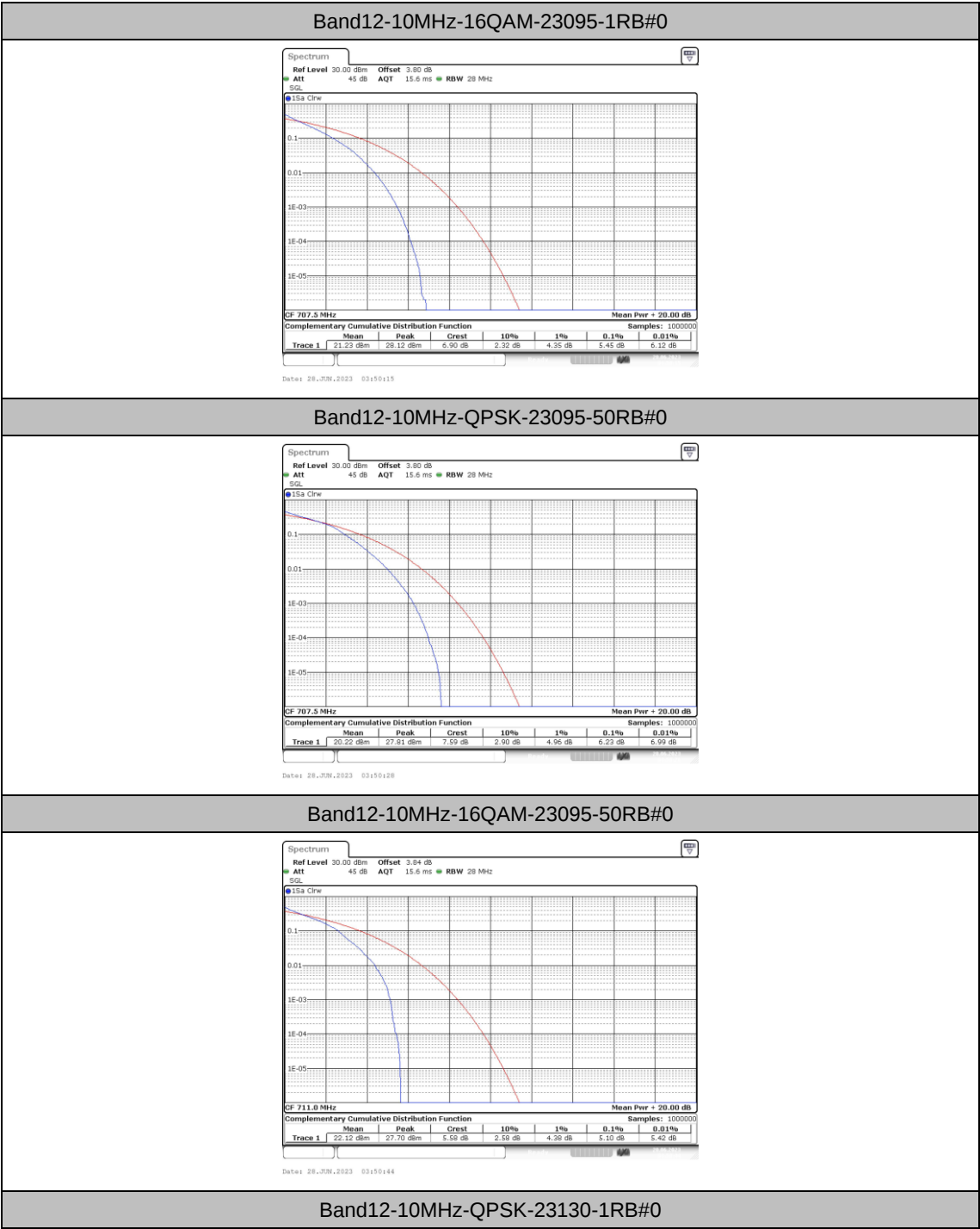


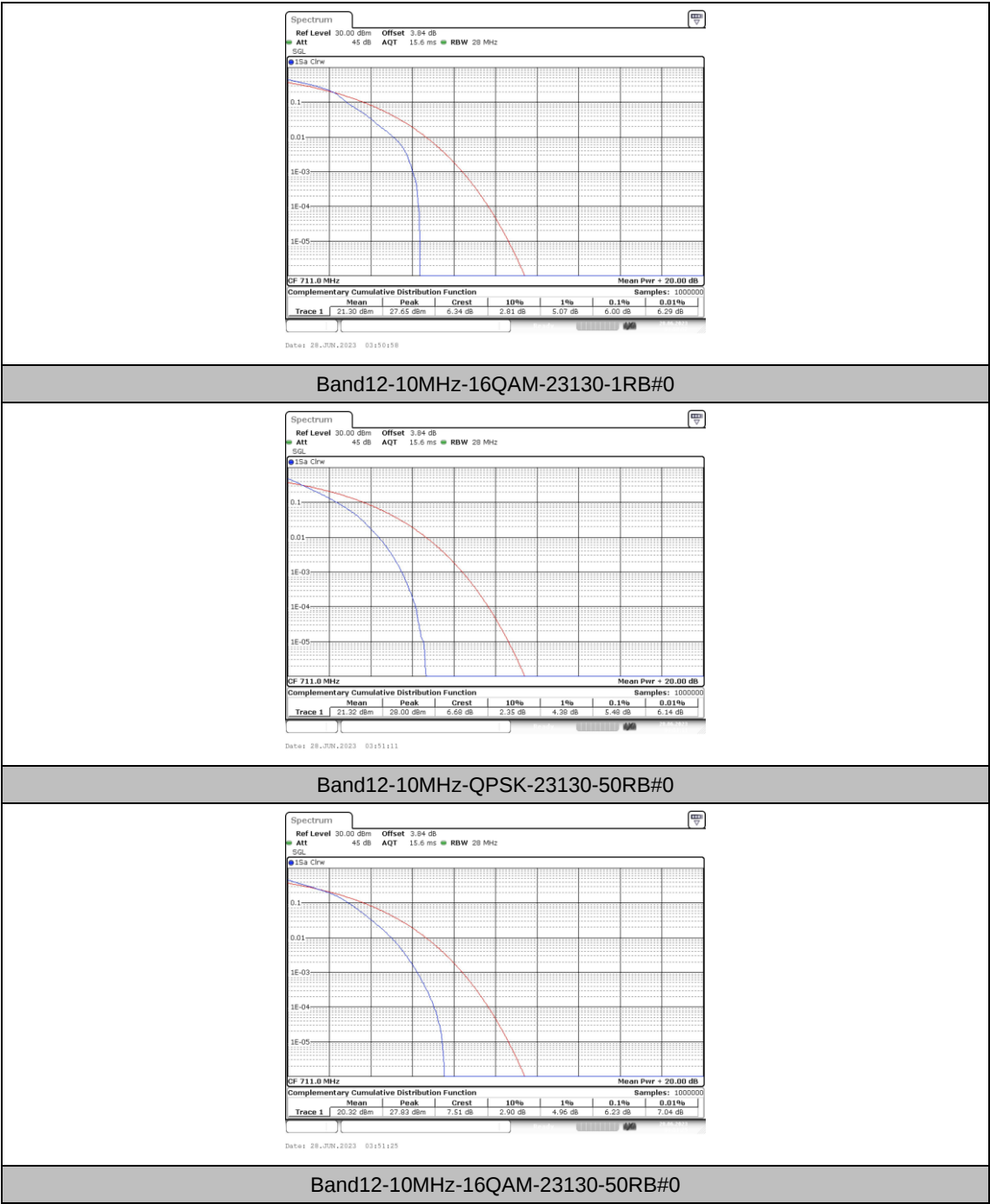
Band12-10MHz-16QAM-23060-50RB#0



Band12-10MHz-QPSK-23095-1RB#0





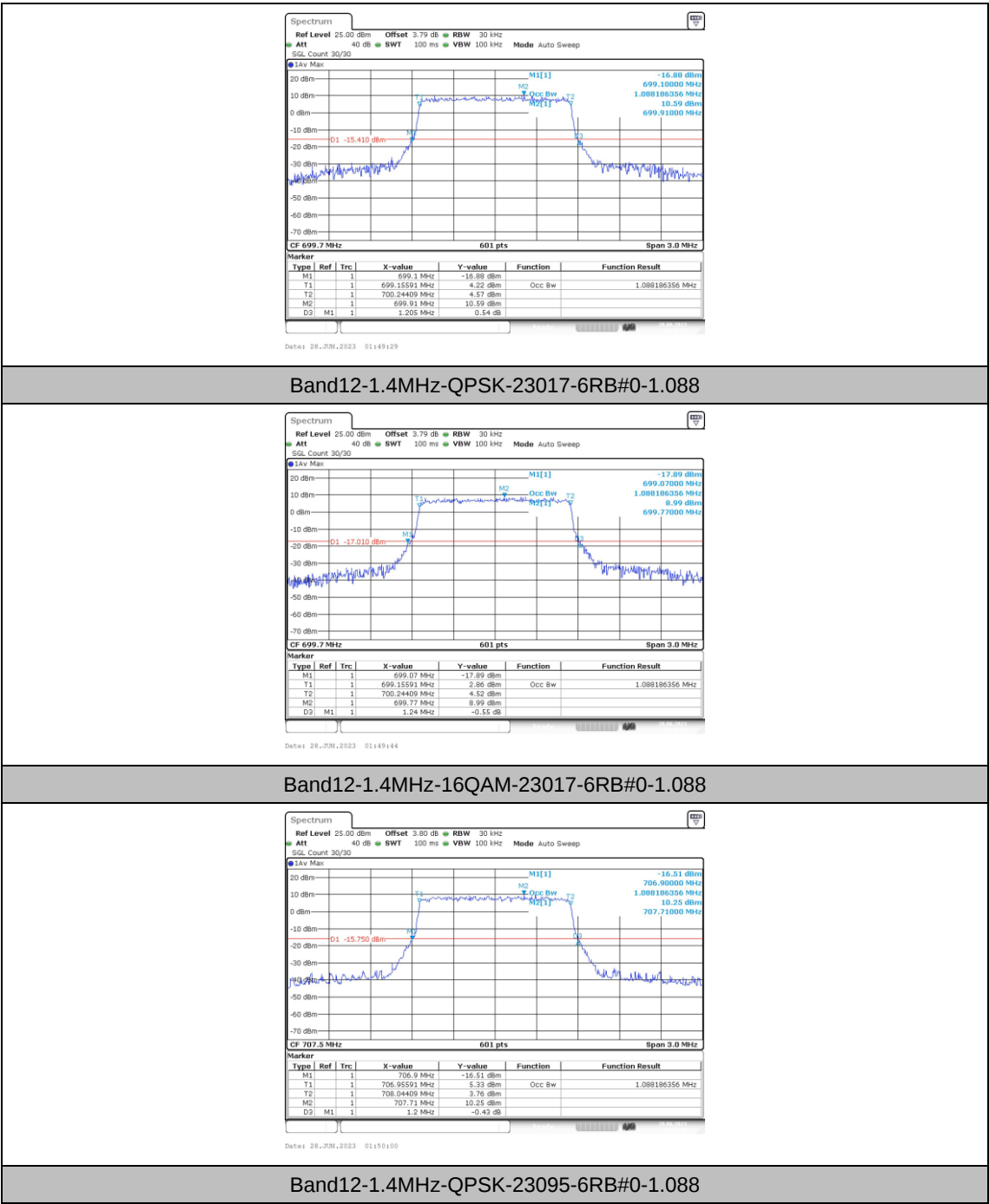


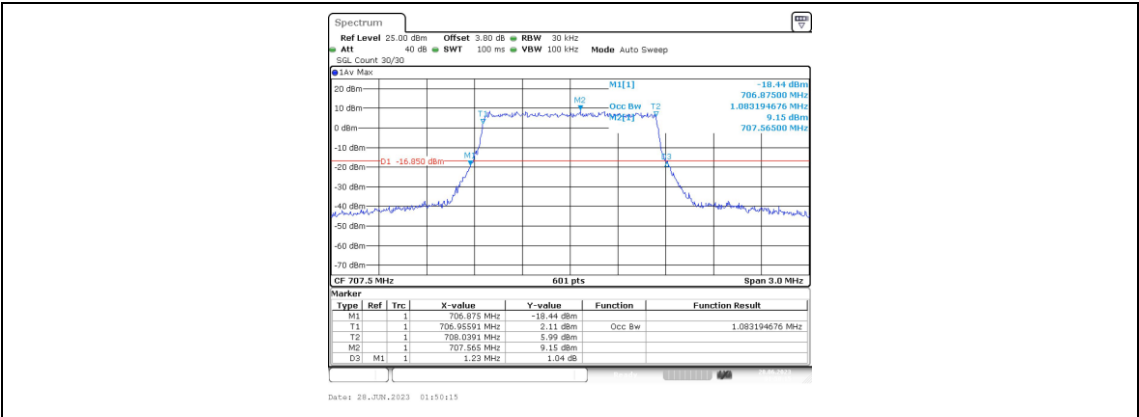
Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

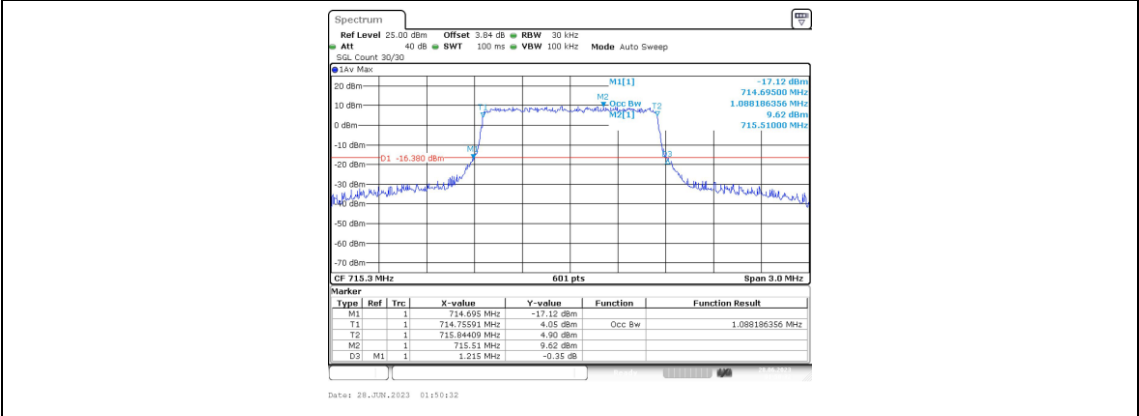
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band12	1.4MHz	QPSK	23017	6RB#0	1.088	1.21	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	1.088	1.24	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	1.088	1.20	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	1.083	1.23	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	1.088	1.22	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	1.088	1.24	PASS
Band12	3MHz	QPSK	23025	15RB#0	2.686	2.84	PASS
Band12	3MHz	16QAM	23025	15RB#0	2.686	2.84	PASS
Band12	3MHz	QPSK	23095	15RB#0	2.696	2.84	PASS
Band12	3MHz	16QAM	23095	15RB#0	2.686	2.85	PASS
Band12	3MHz	QPSK	23165	15RB#0	2.686	2.84	PASS
Band12	3MHz	16QAM	23165	15RB#0	2.696	2.84	PASS
Band12	5MHz	QPSK	23035	25RB#0	4.496	4.79	PASS
Band12	5MHz	16QAM	23035	25RB#0	4.505	4.78	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.496	4.78	PASS
Band12	5MHz	16QAM	23095	25RB#0	4.505	4.81	PASS
Band12	5MHz	QPSK	23155	25RB#0	4.486	4.80	PASS
Band12	5MHz	16QAM	23155	25RB#0	4.505	4.78	PASS
Band12	10MHz	QPSK	23060	50RB#0	8.985	9.57	PASS
Band12	10MHz	16QAM	23060	50RB#0	8.952	9.53	PASS
Band12	10MHz	QPSK	23095	50RB#0	8.985	9.53	PASS
Band12	10MHz	16QAM	23095	50RB#0	8.985	9.53	PASS
Band12	10MHz	QPSK	23130	50RB#0	8.985	9.53	PASS
Band12	10MHz	16QAM	23130	50RB#0	8.985	9.53	PASS

Test Graphs

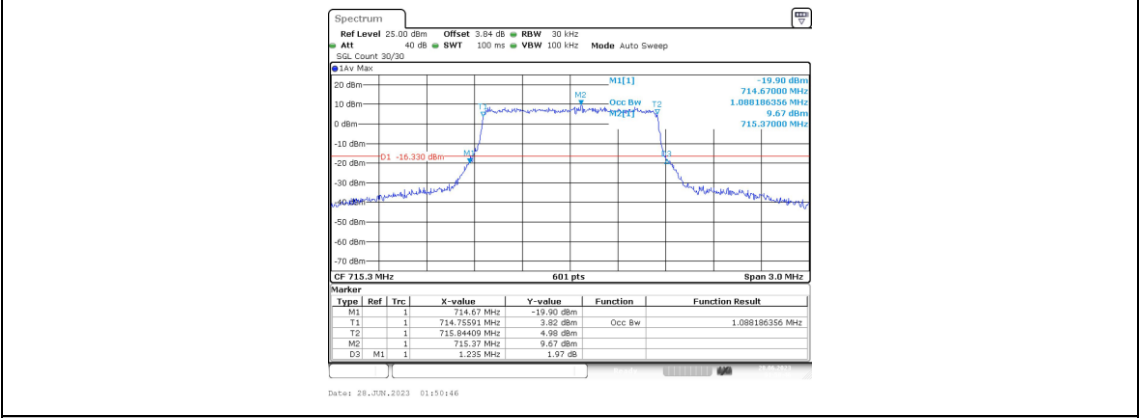




Band12-1.4MHz-16QAM-23095-6RB#0-1.083



Band12-1.4MHz-QPSK-23173-6RB#0-1.088



Band12-1.4MHz-16QAM-23173-6RB#0-1.088

